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ACC-NR: APO00120001 DATE: 04-14-06/000/000000000000000000

AUTHORS: Мирононова, Елена Николаевна; Константинов, А. Г.; Любров, В. М.

SP01: Central laboratory of information, Central'naya laboratoriya avtomatiki; Ministry of Ferrous Metallurgy (Ministerstvo nerzhy metallurgii SSSR)

TITLE: System for programmed control of the electrostar' heating process

PUBLISHER: Metallurg, N. I., Leningrad

TOPIC TAGS: metal melting, steel, smelting, electroslag melting, ~~electroslag~~, ~~melting~~, control, automation, control

ABSTRACT: The Central Laboratory of Automation in cooperation with the Elektrostal' Plant has developed a system for programmed control of the electroslag melting process which makes possible complete automation of the process. In this system the process is controlled by time and according to a preset program. The system automatically changes the secondary voltage of the furnace transformer, controls the current according to a preset program within 0-100% of the nominal value with an error not exceeding 1%, interrupts the process for a given time period either by lifting the electrode from

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UDC: 669.187.6

L 40976-66

ACC NR: AP6027288

disconnecting the secondary circuit, changes the melting conditions to those of filling the shrinkage cavity, lifts the electrode and disconnects the power when melting is completed, and shows continuously the important conditions of the process. The system has been installed in three electroslag furnaces at the 'Electrostal' Plant and has been in operation for two years. This year, the Central Laboratory of Automation will deliver a series of these systems to other metallurgical plants possessing electroslag furnaces. Orig. art. has: 3 figures.

(SV)

SUB CODE: 13/ SUBM DATE: none/ ATD PRESS: 5758

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Card 2/2

YEFROYMOVICH, Yu.Ye.; PIROZHNIKOV, V.Ye.

Regularities of controlling thermal and electrical conditions
in steel smelting arc furnaces. Stal' 24 no.1:40-44 Ja '64.
(MIRA 17:2)

YEFROMOVICH, Yu.Ye.; KARAVKIN, V.V., KOZYREV, L.E., PREDNOZHENSKIY,

Mechanization of the process of thickness control of metal
Metallurg. i. Zhd. 1972, No. 10, p. 105.

L 40743-65 EWG(j)/EWT(d)/EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(1)/EPF(n)-2/EWA(d)/EWP(v)/
EPR/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/EWA(h) Pf-4/Pr-4/Ps-4/Pt-10/Peb/Pu-4 JD/kw/
ACCESSION NR: AP5007454 JG/WH S/0286/65/000/004/0075/0076

AUTHOR: Vinogradov, V. M.; Yefremovich, Yu. Ye.; Kotikov, A. N.;
Filin, D. G.; Pirozhnikov, V. Ya.; Shanturin, P. M.; Kraschotova, A. M.;
Kablukovskiy, A. F.; Nazarkin, I. A.; Konyashin, V. I.; Polunin, S. F.;
Oleznyuk, B. A.; Lysenko, S. P.; Voronin, N. I.; Levchuk, V. V.;
Koreshkov, N. Ye.; Laktionov, V. S.; Yuzefovich, V. R.; Vinogradova,
L. V.; Rutman, M. Sh.; Angelevich, M. M.

TITLE: Automatic device for repeated measuring of the temperature
of molten steel / Class 42, No. 168495

SOURCE: Byulleten' izobretaniy i tovarnykh znakov, no. 4, 1965, 75
75-76

TOPIC TAGS: temperature measuring, molten steel temperature

ABSTRACT: This Author Certificate introduces an automatic device
for repeated measuring of molten steel temperature in an open hearth
furnace. The device consists of a thermocouple, a driving mechanism,
and a registering instrument. To improve the reliability and compact-
ness of the device, the thermocouple carriage is connected to the

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ACCESSION NR: AP5007454

2

piston rod of the pneumatic cylinder by a pulley in such a way that the length of the carriage stroke exceeds that of the rod stroke by a preset value. The thermocouple location in the furnace is controlled by the regulator of the piston rod position, which is connected to the programming membrane and the reverse movement spring. To increase service life, the thermocouple junction is protected by a siliconized graphite tip which is fixed to the refractory thermocouple holder with aluminum-phosphate cement. The duration of the measurement is controlled by a polarized relay. The polarized relay is connected to the amplifier output circuit of the registering instrument which controls the air distributor of the carriage drive through a thermal and electropneumatic relay and determines the end of the measurement. Orig. art. has: 1 figure. [AZ]

ASSOCIATION: Tsentral'naya laboratoriya avtomatiki (Central
Automation Laboratory)

SUBMITTED: 25Dec61

ENCL: 00

SUB CODE: TD, IE

NO REF Sov: 000

OTHER: 000

ATD PRESS: 323

Card 2/2

YEFIGOV, V.I., Yu.Ye., kand.tekhn.nauk; CHENIK, I., Yu., in. .; T. Ft., Yu.S., inzh.

Mechanisms of air flow and heat transfer in the combustion chamber of a furnace. Elektr.tekhnika i radiofizika. 1970. v. 13. no. 1. p. 1-5.

AUTHORS

Iefroymovich, I. A., Vinogradov, V. M., Irozhnikov,
V. Ye. Danilevskiy, ...

TITLE:

Application of refractory endpieces for controlling the
lining temperature of electric arc furnaces by means of
thermocouples

PERIODICAL: Sognepory, no. 4, '86, '8-'84

TEXT: The authors describe thermocouples with refractory endpieces for measuring the temperature of liquid steel and of the refractory lining. The Tsentral'naya laboratoriya avtomatiki (TsLA) (Central Laboratory of Automation) and the zavod "Elektrostal'" Works "Elektrostal'" are conducting comprehensive work for the automation of the steel melting process in electric arc furnaces. The following persons participate in this work: L. V. Vinogradova, N. I. Veronin, L. I. Bellis, I. M. Lebedeva, V. V. Levchuk, T. Z. Malikova, J. M. Margulis, K. G. Romanchenko, and L. S. Rutman. Fig. 1 shows the arrangement of the thermocouple. The continuous temperature measurement of the lining is well

Card 1, 5

Application of refractory shippipes . . .

P. I. P.

Liquid steel temperature in the electric arc furnace. Thermocouples with tungsten-rhenium electrodes with a content of 5% and 10% of rhenium BP5 20 (VR5,..) which had been developed by the TsAI and the Moskovskiy elektrolyampovyy zavod (Moscow Incandescent Lamps Factory) and tungsten-molybdenum electrodes with an addition of 10% aluminum, which were produced by the TsNII'nm (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)) proved to be the most stable thermocouples for a continuous temperature control. The temperature of the lining is continuously recorded by a self-recording potentiometer. To select the most suitable endpieces the products obtained from Ir., Ni., Cr., Fe, V, were tested which had been produced by the V.I. Vilkov Ukrainskiy nauchno-issledovatel'skiy institut sognoporev ("Ukrain Scientific Research Institute of Refractories") as well as by the soviel'skiy zavod "Sokol'ye" Works. The experiments were made in a 10-ton furnace equipped with a 10-kva transformer. Maximum stability was observed in high-aluminum endpieces which had been produced by the Adol'skaya "V. I. Reimsterov" Refractories. The experimental results showed that at 1400°C the

Card 2/5

Application of refractory endpieces ...

thickness of more than 1.3 mm, are allowed only for 1.3-1.5 mm. temperature measurement of the lining of walls and arcs during 4.5 hours (duration of melt) (Fig. 4). Endpieces with higher thermal stability are necessary for temperatures exceeding 1700°C. The duration of melting and thus also the overheating of the lining can be reduced by increasing the temperatures of the metal in the period of oxidation. Test melts of remolten 1.15 (ShKh15) steel showed that with a reduction of the specific current consumption by 50-55 kwh on the average, the average duration of melt could be reduced by 33 and/or 17 min. The control of electrical and thermal conditions resulted in an increase of the average stability of walls and arcs of electric arc furnaces by approximately 3-5 melts. There are 4 figures, 2 tables, and 4 Soviet-bloc references.

ASSOCIATION: TsLA Glavproyektmontazhavtovratiki

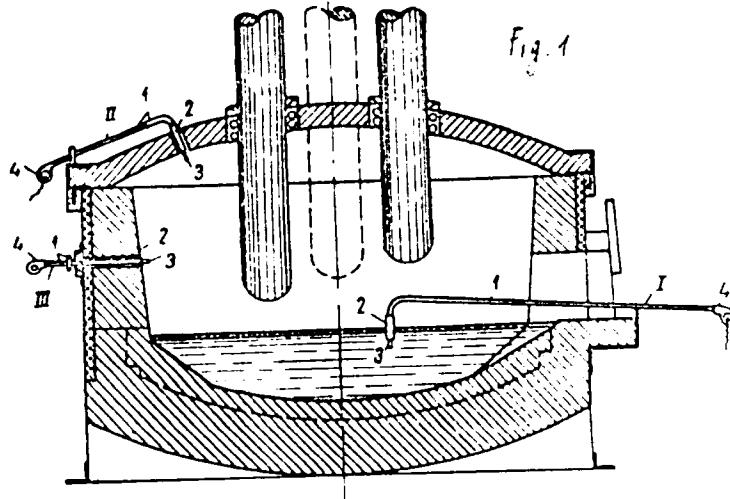
Card 3/5

Application of refractory endpiece

1961/000/004, 103
31, 3202

Legend to Fig. 1:

I - immersion thermocouple;
II - thermocouple in the arc;
III - thermocouple in the wall;
1) metal tube;
2) graphite block;
3) refractory endpiece

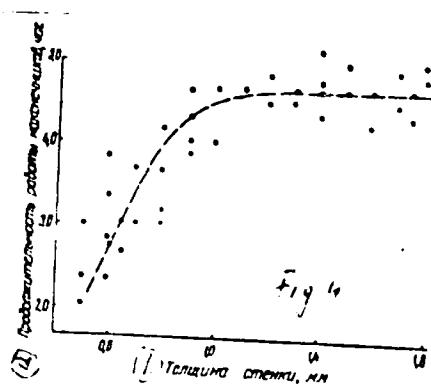


Card 4/5

Application of refractory endpieces

F105/P262

Legend to Fig. 4: durability
of the endpieces as depending
on their wall thickness when
measuring the temperatures of
electric arc furnaces.
a) durability, hr; b) wall
thickness, mm.



Card 5/5

ACC NR: AP6029035

SOURCE CODE: UK/0413/66/000/014/0051/0052

INVENTORS: Kolchanov, V. A.; Yefroymovich, Yu. Ye.; Vinogradov, V. M.; Notikov, A. N.; Pirozhnikov, V. Ye.; Malinenko, M. A.; Gunin, I. V.

ORG: none

TITLE: A device for controlling the electric system of an electric slag remelting installation. Class 21, No. 103047 [announced by Central Laboratory of Automation (Tsentral'naya laboratoriya avtomatiki)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 51-52

TOPIC TAGS: slag, smelting furnace, metallurgic furnace, electric equipment, automatic control system

ABSTRACT: This Author Certificate presents a device for controlling the electric system of an electric slag remelting installation based on the Author Certificate No. 139032. The design increases the reliability of the device because of the noncontact readout of the specification. The program mechanism includes a removable program matrix and a secondary matrix made from semiconductor diodes (see Fig. 1). These matrices are electrically connected through a comparison relay. The contacts of this relay are connected with the coil of the step scanner of the program matrix. The program matrix controls (through the relay system) the multiwinding current

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UDC: 621.365.2.07b

ACC NR: AP6029035

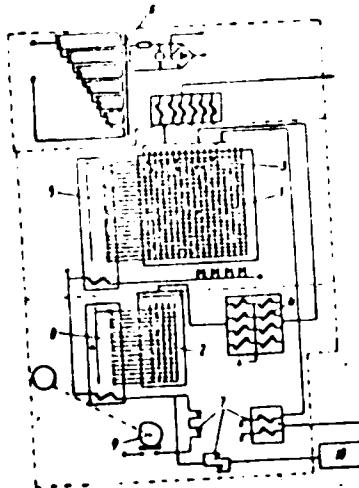


Fig. 1. 1 - removable program matrix; 2 - secondary matrix; 3 - semiconductor diodes; 4 - comparison relay; 5 - step scanner of the program matrix; 6 - multiwinding transformer; 7 - switch; 8 - step scanner of the secondary matrix; 9 - mechanism of the time readout; 10 - switch of the step voltage

transformer and a switch. The switch connects the coil of the step scanner of the secondary matrix either with the mechanism of the time readout or with the switch of the step voltage of the power transformer. Orig. art. has: 1 figure.

SUB CODE: 09 13 / SUBM DATE: 25Feb65

Card 2/2

KIROVSKAYA, T. I., T. V. BOGOSLOVA, N. V. ZHUKOVSKAYA, S. I. ZAYEVA, T. G. SEV'YANOVA

"Anaerobic Bacteria," Trudy Moskovskogo oblastnogo instituta epidem., mikrobiol., i infekts. bolezney i zrenii tekhnicheskaya (Transactions of the Moscow Oblast Institute of Epidemiology, Microbiology, and Infectious Disease imeni Mekhnikova, 2, 5-12, Sverdlovsk, 1943)

LIBRARY, U. S.

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Vector (all) 2001-07-13 10:17:00 1998-07-13 10:17:00

9. Monthly List of Russian Accessions, Library of Congress, October 19⁹⁷, One.

PIROZHNYY, A. A.

28212

Byeodyeznchyeskiye izmyeryeniya v. zimnikh usloviyakh. uchyan. zapiski
(vbssh, arkt. mor, uchlishchye. Im. Adm. Makarova). Vif. 1, 1949, s. 195-97.
G. myekhanika. Gidromyekhanika. Aeromyekhanika.

SO. LETOIS NO. 34

PIROZHOK, N., agronom

Subtilage with plows without a moldboard. Nauka i pered. op. v
sel'khoz. 9 no.7:15-16 Jl '59. (MIRA 12:11)
(Tillage)

PIROZHOK, N.M. [Pyrozhok, M.M.], starshiy nauchnyy sotrudnik

Introducing soil conservation practices on the Kuybyshev Collective Farm. Visnyk sil'hosp.nauky 4 no.8:37-40 Ag '61. (MIRA 14:7)

1. Khmel'nitskaya gosudarstvennaya sel'skokhozyaystvennaya optytnaya stantsiya.

(Khmel'nitskiy Province—Soil conservation)

KOZYAKIN, V.V.; ANDREEV, A.Ye.; BOYKOV, Yu.N.; VAYNSHTYN, G.M.;
KUZEN, V.M.; BRODSKIY, F.Ye.; KHABAROVA, N.P.; TIKHONOV, V.V.;
L'vinovskii Uchastiye; L'vinovskii, Ye.V.; YUDOVICH, A.I. released;
MINTYANOV, I.P.; SNEZHNIKOVA, N.Ya.; BILAKOV, V.V.; VITOVSKIY,
V.Ya.; BRAGIN, A.M.

Handling of molten metal (i.e. magnesium. TSvet. met. 37, p. 1.
13-56. 5. 1962.)
MIA - 12:

PIRPILASHVILI, P.M.

Traces of some diseases, injuries and medical manipulation
according to the bone material found by Georgian archaeologists.
Soob. AN Gruz. SSR 32 no. 1:241-248 O '63. (MIRA 17:9)

PIRPILASHVILI, P.M.

Some questions relating to the snake cult in Georgian popular medicine. Soobz. Muz. Ser. 1, no. 3: 377-382.
S '59. (MIR 13:2)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno chленom-korrespondentom Akademii G.S.Chitaya.
(GEORGIA-MEDICINE, P.PULAK)
(SERPENT IN CHIPI)

PIRPILASHVILI, P.N.

Some popular Georgian medical instruments, appliances, and vessels.
Snob. AN Gruz. SSR 19 no.2:247-256 Ag '57. (MIRA 11:3)

1. Gosudarstvennyy muzey Gruzii im. rukad. S.M. Dzhanashvili AN
Gruz.SSR, Tbilisi. Prudstavleno chlenom-korrespondentom AN G.S.
Chitayn. (GEORGIA--MEDICAL INSTRUMENTS AND APPARATUS)

PIRPILASHVILI, P.M.

Some problems in the history of Georgian medicine based on materials obtained by archaeological excavations. Soob. AN Gruz. SSR 24 no. 1:121-128 Ja '60. (MIRA 14:5)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavлено akademikom V.K. Zhgenti.
(GEORGIA—MEDICINE)

PIRPILASHVILI, P.M.

Vestiges of some diseases, injuries and medical manipulations according to paleoanthropological materials found in Mtskheta and Dusheti. Soob. AN Grus. SSR 20 no.6:753-760 Je '58. (MIRA 11:10)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavlene akademikom V.K. Zhgenti.
(MTSKHETA--MAN, PREHISTORIC--DISEASES)
(DUSHETI--MAN, PREHISTORIC--DISEASES)

PIRPILASHVILI, P.M.

On some surgical instruments found in archaeological excavations.
Soob. AN Gruz.SSR 18 no.4:495-502 Ap '57. (MLRA 10:7)

1. Tbiliskkiy institut usovershenstvovaniya vrachey. Predst.vleno
chlenom-korrespondentom Akademii K.P. Chikovani.
(Surgical instruments and apparatus--History) (Georgia-Archeology)

PIRPILASHVILI, P.M.

Investigation of bone diseases based on archaeological remains
from the Samtavisi burial grounds. Soob. AN Gruz. SSR 15 no. 3.
551-560 '54. (MIRA 8:9)

I. Akademiya nauk Grusinskoy SSR, Institut eksperimental'noy i
klinicheskoy khirurgii i hematologii, Tbilisi. Predstavлено
deystvitel'nym chlenom Akademii K.D. Eristavi.
(Samtavisi--Archaeology) (Bones--Diseases)

PIRPILASHVILI, P.M.

Traces of certain diseases found in paleoanthropological specimens.
Seob. AM Gruz. SSR 17 no. 4: 369-376 '56. (MIRA 9:9)

I. Akademija nauk Gruzinskoj SSR, Institut eksperimental'noj i klinicheskoj kirurgii i hematologii, Tbilisi. Predstavljeno akademikom K.D. Eristavi.
(PALEOPATHOLOGY)

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R. L. DAVIS, JR.

RECORDED ON 4/24/86 BY R. L. DAVIS, JR.
IN THE CITY OF NEW YORK

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Elizabethtown, PA.

National Defense Science and Engineering Graduate School
Elizabethtown, PA 17022

1. Geographically where are: West Virginia, Ohio, Kentucky, Indiana,
PA, Maryland, DC and Virginia?

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PIRS, Jozef, ing.

Ultrasonic studies of seamless tubes. Brodogradnja 7 no.6:266-273
'56.

PIRS, Jozef, dr. inz., docent

Acousticelastic and acousticplastic methods, respectively,
in studying permanent deformations of Cr-Ni-Mo steel rolled
pipes. Rud met zbor no. 2;137-156 '64.

1. Faculty of Machine Building, University of Zagreb, Rijeka.

FIRS, Jozef, dr. inz., docent

Influence of thermal treatment on the longitudinal and transversal ultrasonic vibrations in the plane rolled tubes of Cr-Mo steel. Rad met zbor no. 3:125-243 '62.

1. Vseučiliště v Zagrebu, Fakulteta za strojnístvo, Rijeka.

FIRS, oze, dr. inz., docent

Comparative ultrasonic method for quality of r-M-270
steel forged and rolled types. Certificate number 218-101
163.

1. Measurement of the mechanical properties, like:

P.I.S. 27, Ariz., April 1963. (K-1) Dept. 1

Frequencies of jammers used during testing, and testing. Canadian Forces, Ottawa, Ontario, May 1963.

Ap '63.

1. Kinds of jammers used during testing, and testing. Canadian Forces, Ottawa, Ontario, May 1963.

MOHORICIC, G.; PIRS, M.; DOLAR, D.

Ion exchange properties of a γ , β -benaphthocycl-propionic acid-formaldehyde resin. Vest. Slov. Kem. dr. 9 no.1/2:1-4
Ja-Je '62.

1. Nuclear Institute "J. Stefan" Ljubljana, Yugoslavia,
2. Physical Chemistry Laboratory University of Ljubljana,
Ljubljana (for Dolar).

PIRS, M.

Capillary chromatographic separation of zirconium and
thorium²³² U. Lebz and M. Park. "J. Seism. Inst. Res."
(Ljubljana) J. 17-3(1958)(in English).—Sepn. of 120-
130 γ of ZrOCl₄ and 80-100 γ of ThCl₄ was accomplished by
the ascending method on nonimpregnated paper with a
solvent contg. 100 ml. acetone and 20-32 ml. of 6% H₂C₂O₄.
R. factors varied with vol. of H₂C₂O₄. H. W. Kirby

PIRS M.

5

Selectivity coefficients of an acenaphthalenesulfonic acid ion-exchange resin.¹ M. Prib, D. Dolari, and G. Mohorvic.
"J. Sefan," Inst. Jozef Stefan, Ljubljana, Yugoslavia, 5, 33-9
(1958) (in English).—A poly(methyleneacenaphthalenesulfonic acid) ion-exchange resin was prep'd. Its selectivity coeffs. toward the following pairs of cations were detd.: K-Li, K-NH₄, Mg-Ca, Ca-UO₄, K-Mg, and Ca-Cr. Some coeffs. were found to be comparable with those of the common anionic-type ion-exchange resins. Harlan E. Fischer

gj

MRS. M.

1635. Colorimetric determination of zirconium in trace analyses. N. T. Rep. J. Selsam Inst. Lyddiana, 1954, 2, 176-178 (in English).—Microgram quantities (10 to 40 µg) of Zr are determined by the diminution of colour intensity of a soln. of 4-dimethylaminobenzene-4'-arachic acid after pptn. of Zr. Procedures for determinations in steel, coal ash and bauxite are described; good results were obtained for samples containing up to 0.3% ZrO₂, with a standard deviation of $\pm 10\%$. Interference by Ti, Fe, F⁻, PO₄³⁻, WO₄²⁻, SO₄²⁻, NO₃⁻ and molybdate is discussed.

O. M. WHITTON

OM May 1954

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PIRSADCV,A.

USSR

Concerning - Sulfur Mine (Serniy Zavod,)

N: Turkmenskaya Iskra 1947

SOURCE: Alshkhatabad

Abstracted in USAF "Treasure Island" Report No.

3388, on file in Library of Congress, Air

Information Division.

FLORIAN, Petru, prof. (Dej), MARUSTERU, St., (Baia Mare); HERLING, C., student; PIKSAN, L.C., student (Bucuresti); IONESCU-TIU, C.; COSTACHESCU, C.V., LAMBA, Stefan (Constanta); LIVIU, Petre (Pucioasa); STRATISIU, Ion, student; BRINZANESCU, V., elev (Constanta); KLIM, Bratu, student (Bucuresti); TEMPEANU, C. (Hunedorara); CALINISCU, Aurelian (Brasov); MUNTEANU, Valentin (Cluj); OPRFA, Miron (Ploiesti); MIHAILEANU, N.; TIGANOIU, Al., inginer; Buciliu, Gh., POPA, Eugen I. (Iasi)

Proposed problems. Gaz mat B 14 no.8:481-485 Ag '63.

1. Institutul Politehnic Bucuresti (for Herling).

MUNTEANU, Corneliu (Bucuresti); PESTROIU, Daniel (Tirgu Jiu); PIROSAU, Liviu
(Bucuresti); VOICULESCU, Dan (Bucuresti); ALBESCU, I. (Pitesti)
PELTEANU, Ioan (Bucuresti); STANCU, I.M. (Bucuresti); MIHESCU,
Ion (Bucuresti); STANESCU, Ilie (Sibiu); IONESCU, Traian (Braila);
KACSO, F. (Cluj); MANESCU, L. (Rimnicu Vilcea); IONESCU-TIU, C.;
FOCSENEANU, M.I.; POPA, Eugen (Iasi); MIHALCA, Dan (Bucuresti); PELIGRAD,
Nicolae, prof. (Pitești); DUMA, I. Dorin (Caransebeș); STANCU, Ion M.
(Bucuresti)

Proposed problems. Gaz. mat B 16 no.2:86-91 F '65.

CASANDROIU, Tudor (Bucuresti); STANCIU, A., prof. (Braila); IONESCU-TIU, C.;
VOICULESCU, Dan (Bucuresti); SIMIONESCU, Gh. D.; STRATESCU, Ion
(Bucuresti); HEMLING, C. (Bucuresti); PIRSAN, Liviu (Bucuresti);
TOMESCU, Ioan (Bucuresti); GRIGORESCU, Serban, I.; LIVIU, Petre, prof.
(Tirgoviste); DANCILA, Ion (Sibiu); DUMITRU, Acu (Cluj); POPA, E.
(Iasi); SANDULACHE, C., prof. (Negresti, Iasi); TUDOR, C.N. (Bucuresti)

Proposed problems. Gaz mat B 16 no.3:129-133 Mr '65.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020001-9

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Kaufman, G. (FBI Agent) - 1700 14th Street, N.W., Washington, D.C.
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Kaufman, O. (FBI Agent) - 1700 14th Street, N.W., Washington, D.C.
Kaufman, P. (FBI Agent) - 1700 14th Street, N.W., Washington, D.C.
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CIA-RDP86-00513R001341020001-9

SECRET CLASSIFICATION INFORMATION
TOMESCU, Ionel, General, USAR, Retired
Major General, USAR, Retired

Served in Romania, USA and Germany.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020001-9"

RUSU, I.; NASTASESCU, C., elev (Pucioasa); FLISĂU, L.; MIHAI, I.,
prof. (n. Vilea); BĂGĂIAN, V., prof. (Brașov); TUDOR, G.,
student (București); SCHWARTZ, Lajos (Oradea); LUDVAK, Jarvis
(Galati); PIRO, James (Oradea)

Solved problems. Gas Nat B 14 no.10:007-01' 0 '03.

GLEA, GLEAZ, GLEAZI, GLEAZI, GLEAZI, GLEAZI; SALO LAZI, + PFI.
GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN;
GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN;
GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN;
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GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN, GLEN;

PIRSAN, Liviu, student matematici (Bucuresti)

Mathematical notes. Gaz mat B 14 no.8:467-468 Ag '63.

NICULESCU, G.G. (Roman); COSTACHESCU, G.V., SACTER, O.; BATINETIU, I.M.
(Bucuresti); CHISALITA Adrian (Iasi); PIRSAN, Liviu (Bucuresti);
GRIGORESCU, Serban I. (Bucuresti); BRATILESCU, I.; PETRE;
(Constanta); ILPISTE, Constantine, prof. (Bucuresti); CALDARICA,
Gh. (Bucuresti); VOICULESCU, Dan (Bucuresti); THODORESCU I.
(Galati); KNESCU-TI", C.; POPA, Eugen I. (Iasi); POPA, H.
(Galati); STAVRI Petre (Galati); MINTA, St. (Oradea
Alexandru (Piatra Neamti); STAVRI Petre (Galati).

Proposed problems. Gaz met. Pol. din Rom. 1974.

PIRSAN, Liviu, student (Bucuresti)

Exercises and problems for the classes V-VIII; E:1807.
Gaz mat B 13 no.3:175 Mr '62.

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1. This is a copy of the original photograph. It is a black and white negative.

2. The photograph was taken from a distance of approximately 10 feet.

3. The subject is a man wearing a dark suit jacket, a light-colored shirt, and a dark tie. He is looking directly at the camera.

4. The background is a plain, light-colored wall.

5. The photograph is oriented vertically.

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FBI - WASHINGTON, D.C.
20535-1072

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020001-9"

Pirscoveanu, Apostolide, I.

Country	: ROMANIA	H-8
Category	: Chemical Technology. Elements. Oxides. Mineral Acids. Bases. Salts.	
Abs. Jour	: Ref Zhur-Khimiya, No 14, 1959, No 50118	
Author	: Pirscoveanu - Apostolide, I.	
Institute	: Comparison of Economics of the Sulfuric Acid	
Title	: Manufacture from Pyrites and from Gypsum *	
Orig Pub.	: Rev. chim., 1958, 9, № 10, 561-570	
Abstract	: The review of economics of the H_2SO_4 manufac- ture from gypsum (in comparison with its manufacture from pyrites), and also technology of the process including volume and cost of raw materials, power requirements, investment cost, and direct operating cost. It is conclu- ded that the manufacture of H_2SO_4 from gypsum	
	* (Anhydrite).	
Card:	1/2	

u. a

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PIRS COVEANU-APOSTOLIDE, Ana

Mineral fertilizers; some aspects in the light of statistical
data. Rev chimie Min petr L, no.2:67-76 F '63.

PIRSEL, Anton

Establishment of the Maize Research Institute. *Vestnik vyzk
zemodel* 9 no.6:320-323 '62.

1. Riaditel Vyskumneho ustavu kukurice, Trnava.

ACC NR: AP7002566 (A,N) SOURCE CODE: UR/0413/66/000/023/0054/0054

INVENTOR: Nikolayev, I.V.; Pirshin, I.V.

ORG: none

TITLE: Light modulator. Class 21, No. 189005

SOURCE: Izobreteniya, promyshlennyye obraztay, tovarnyye znaki, no. 23, 1966, 54

TOPIC TAGS: light modulator, light communication, interference light modulator, modulator, OPTIC CRYSTALS

ABSTRACT: An Author Certificate has been issued for an interference-type light modulator containing a polarizer, reflecting mirrors, and transversely-cut electro-optical crystals which are placed in the shf resonator. To compensate for temperature and mechanical effects, the crystals are placed along a closed curve; the distance between crystal centers is equal to $\lambda(2m-1)/2 + \lambda/2n$, where λ is the shf wavelength in air; m , the positive integers 1, 2, 3...; l , crystal length; and n , refractive index. After passing the light divider the light beams are propagated in opposite

Card 1/2

621.375.8
UDC: 621.376.9

ACC NR. AP7002566

directions along either the X' or Y' axis. The first crystal along the path of the beam is placed at a distance l from the center of the light divider, while the last crystal is put at a distance of $\lambda(2m-1)/2 + \lambda/2n$. [WP]

SUB CODE: 17, 20 / SUBM DATE: 24Jul65 / ATD PRESS: 5114

Card 2/2

L 44360-66 EWT J/FSS-2 GD
ACC NR: AT6022272

SOURCE CODE: UR/0000/66/000/000/0033/0040

AUTHOR: Pirshin, I. V.; Koblova, M. M.; Khlystov, V. I.; Anton'yants, Ye. V.

ORG: none

TITLE: Investigation and development of optical modulators

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sekt-
siya kvantovoy elektroniki. Doklady. Moscow, 1966, 33-40

TOPIC TAGS: optic modulator, interferometer, laser communication, laser

ABSTRACT: Since existing optical modulators have electrooptical crystals that require high voltage, a device using a symmetrical Michelson interferometer with double refracting rectangular cut crystals in the arms was developed. The latter are controlled by a fixed or variable voltage to the extinction of polarization. The power required to control the modulator can be lowered by increasing the length of the crystal and decreasing the beam splitter. The lower threshold voltage is determined by the value of the extinction polarization threshold, which is dependent on the voltage. The values of power and voltage for modulator operation at various current levels are given. The values of power and voltage for uniformity of light intensity over the beam splitter are given. The arms of the modulator must be identical and temperature must be controlled for best operation since the

Cord 1/2

ACU NR AT&T 2272

Modulator is rather sensitive to temperature variations. Details on the thermal expansion of various parts and on how to eliminate the effects of expansion on modulator operation are described. Invar is suggested as the best structural material. The maximum modulation frequency is 100 Mc. A model of the device, 11 * 14 * 6 cm and weighing 3.6 kg, was constructed of superinvar. Details of the optics are given, including the technique for adjusting the mirrors. The modulator was tested between 3 and 100 Mc with a control voltage of 150 v. The model was tested in an experimental transmission of a television picture with the aid of a laser beam. Calculations were made of waveguide size for given wavelengths and the power required for the crystals in the waveguide. The tests of the modulator based on a Michelson interferometer proved its applicability for high and superhigh frequencies. Orig. art. has: 5 figures.

SUB CODE: 20,17/

SUBM DATE: 11Apr66/

ORIG REF: 001

Card 2/2 hs

1. 9893-66 FMT(1)/EMT(1)/EEG(k)-2 LJP(c) WM/GG
ACC NR AP6000560 SOURCE CODE: UR/0109765/010/012/2247/2251
44,55

AUTHOR: Pirshin, I. V.

ORG: none

TITLE: Modulation of light by means of the electro-optic effect in a Michelson interferometer

SOURCE: Radiotekhnika i elektronika, v. 10, no. 12, 1965, 2247-2251

TOPIC TAGS: interferometer, light modulation, electro optic effect, KDP crystal, Pockels effect

ABSTRACT: The possibility of using the variation of the coefficient of transmission (T) of a Michelson interferometer (the ratio of intensity of the transmitted light to that of the incident light) with the difference between the optical paths of the two interferometer arms for amplitude modulation of light is analyzed. It is suggested that the difference in optical paths can be attained by means of the Pockels effect, i.e., by varying the index of refraction of the KDP crystals in each arm of the interferometer. Two flat electrodes in contact with the crystal would provide the necessary electric field. Expressions are derived for 1) the voltage required to change T from 0 to 1, 2) the coefficient of transmission, and 3) the modulation depth. The authors also performed successive experiments using two KDP crystals whose lengths

Cord 1/2

UDC: 621.378.325:535.241.13

L 7023-60

ACC NR: AP6000566

differed by less than 0.05 mm. The capacitance of the crystals was 30 nf. In the frequency range 1—100 Mcps and at a potential difference of 150 v across the modulator, the modulation depth achieved was 52%. The modulation setup described can be used at frequencies up to 10^3 Mcps. The difficulties encountered in this method are also discussed. Orig. art. has: 22 formulas and 6 figures.

[CS]

SUB CODE: 20.

SUBM DATE: 03Feb65/ OTH REF: 003/ ATD PRESS: 4165

DR
Card 2/2

PIRSKII, A. [Pyrs'ki, A.]

Bulletin of Chernobyl Province ("Buletin i Chernobyl'skoy oblasti po informatsii," no.1, 1953, reviewed by A.Pyrs'ki). Material published in "Chernobyl'skoy Provintsii obozreniye" (Review of Chernobyl Province)

PIRSKIY, A. [Pyr's'kyi, A.]

Pamphlets on the questions of economics. Nauka i zhyttia 10
no. 3:58-59 Mr '60. (MIRA 14:8)
(Bibliography—Agriculture—Economic aspects)

HIRSKII, A. N., Cand. Tech. Sci. -- (diss) "Research into factors influencing a series of excavations of coal layers of the Volynskii deposit." Kiev, 1966. 12 pp.; Ministry of Higher and Secondary Specialized Technical Education of Ukrainian SSR, Kiev; Inst. of Lenin Polytechnic Inst., Kiev; Development of Deposit of useful minerals ; 200 copies; price not given; (KL, 2-6), 1971.

PIRSKIY, A.A., inzh.

Determining extent of displacement of undermined seams and surrounding rocks. Izv.vys.ucheb.zav.; gor.zhur. no.3:3-6 '61.
(MIRA 15:4)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut;
rekomenedovana kafedroy razrabotki mestorozhdeniy poleznykh
iskopayemykh Kiyevskogo politekhnicheskogo instituta.
(Lvov-Volyn' Basin—Coal mines and mining)

FIRSKIY, A.A., kand. tekhn. nauk

dump trucks for open-pit mines. Agol' Ukr. 7 no. 7-54 JI - 1-1.
MIRA 16-8.
(Mine haulage)

PIRSKIY, A. A., kand. techn. rank

New design of walking hydraulic supports for stopes. Igol'
Ukr. 6 no.10:41-42 O '62. (MIRA 1:10)

(United States—Mine timbering—Hydraulic equipment)

PIRSKIY, A.A., cornyy inzh.

Selecting an efficient variant for mining coal seams in Novovolynsk
mines. Ugol' Ukr. } no.11:19-21 N '59. (MIRA 13:3)
(Lvov-Volyn' Basin--Coal mines and mining)

PIRSKIY, A.P. [Pyrs'kyi, A.P.]

Stories of collective farm chairmen. Nauka i zhyttia 9 n.11:
60-61 N '59.
(Collective farms)

PIRSKIY, A.P. [Pyrs'kiy, A.P.], agronom

Valuable book ("Let's increase the production of fodder." Reviewed by A. Pyrs'kiy), Nauka i zhystia ? no.6:37-38 Je '57.
(MIRA 12:10)

(Forage plants)

PIRSKIY , P.N.

Calculation of combustion processes) Leningrad, Politekhnik, 1925. 56p

Tudin TP321. P69

PIRSKIY, A.A. , korovy inzh.

Twinnings of Volyn deposit coal seams. Ugeol' Ukr. 3 no.2:14-15 1959.
(MIRA 12:3)

(Lvov-Volyn Basin--Coal geology)

PIRSKIY, A.A., assistant

System and methodology of working deposits in the Volyn' coal
district. Izv.vys.ucheb.zav.; gor.zhur. no.4:23-30 '60.
(MIRA 14:4)

1. Kiyevskiy politekhnicheskiy institut. Rekomendovan kafedroy
razrabotki mestorozhdeniy poleznykh iskopayemykh.
(Lvov-Volyn' Basin--Coal mines and mining)

PIRSKIY, A.P. [Pyrs'kiy, A.P.]

"Library of machinery operators on collective farms." Reviewed
by A.P. Pyrs'kiy. Nauka i zhyttia 9 no.6:51-52 Je '59.
(MIRA 12:8)
(Farm mechanization) (Agricultural machinery)

PIRSKIY, A.P. [Pyrs'kyi, A.P.], agronom

Valuable advice for collective farm members ("Production of high protein content feeding stuffs." Reviewed by A.P.Pyrs'kyi).
Mauka i zhyttia 9 no.1:61-62 Ja '59.
(MIRA 12:1)
(Ukraine--Feeding and feeding stuffs)

KATSEL'SOB, Genrikh Mayorovich; SAY'YAN, Matvey Matveyevich; CHEKMAREV,
Aleksandr Petrovich, professor, doktor; MALYY, Georgiy Ivanovich;
PIRSKIY P.N., redaktor; VALOV, N.A., redaktor izdutel'stva; KARASEV,
A.I., tekhnicheskiy redaktor.

[Rolling thick high-precision sheets] Prokatka tolstykh listov.
povyshennoi tochnost'iu. Pod red. A.P.Chekmareva. Moskva, Gos.nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 125 p.
(MLR 10:5)

I. Deystvitel'nyy chlen Akademii nauk USSR (for Chekmarev)
(Rolling 'Metalwork)
(Sheet steel)

BEL'SKIY, B.E., inzhener; BYSTROV, B.M., inzhener, retsenzent; PIRSKIY, F.N.,
retsenzent; MEDOV, N.M., kandidat tekhnicheskikh nauk, retsenzent;
SHAPIRO, B.S., inzhener, retsenzent.

[Production of hot-rolled sheet steel] Prinvodstvo goriachekatannoy
listy. Minsk, Gos. nauchno-tekh. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1953. 582 p.
(MLR 6:5)
(Sheet steel,

BELSKIY, B. E., inzhener; BYSTROV, B. M., inzhener, retsenzent; PIRSKIY, F. N.,
retsenzent; FEDOSOV, N. M.. kandidat tekhnicheskikh nauk, re*senzent;
SHAPIRO, B. S., inzhener, retsenzent.

Production of hot-rolled sheet steel [Protivodavstvo gorniachekataniya
lista. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i svetlyi
metallurgii, 1953. 585 p.]
(MLKA : 1)
(Sheet Steel)

PIERSON, André

Chemical Abstracts
May 25, 1954
Biological Chemistry

(3)
Cell physiological investigations in *Lemna* roots by reduction of nitrate and phosphate supply. André Piron and Elisabeth Göllner (Univ. Marburg a. d. L., Ger.) — Z. Botan. 41, 147-78 (1953); cf. C.A. 45, 219e.—The following effects were caused by N or P deficiency in weak and in strong degree, resp.: root growth, accelerated, slowed; cell length, increased, increased; plasmolysis time in glucose, prolonged, normal or slightly shortened; position of plasmolysis time max., basally displaced, normal; osmotic value, slightly increased, greatly increased; respiratory O consumption, reversibly reduced, reversibly reduced; photosynthetic O formation, lowered, lowered. M. Jacobson

PIRSON, Dzh. T. [Pearson, J.T.]; IRVIN, T.F. [Irvine, T.F.];
BOGACHEVA, E.A. [translator]

Model study of turbulent heat transfer of liquid metals in the
entrance region of noncircular tubes. Inzh.-fiz. zhur. 6 no.6:
10-19 Je '69.
(MIRA 16:6)

1. Gosudarstvennyy universitet, N'yu-York, SShA.
(Liquid metal)
(Thermodynamics—Electromechanical analogies)

PIRSON, I. [Pierson, E.]; MIROPOL'SKAYA, M.A. [translator]

Vitamin B₁ (thiamine). Vitaminy no. 36-45 '59.

(MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(THIAMINE)

EDWARDS, Dzh.O. [Edwards, J.O.]; PIRSON, R.Dzh. [Pearson, R.G.]; IL'ICHEVA,
I.A. [translator]

Factors determining the nucleophilic reactivity. Usp.khim. 32
no.2:248-262 F '63. (MIRA 16:4)
(Substitution (Chemistry))

S/081/61/030/014/001, 087
B101/B110

94.7000

AUTHOR: Pirson, U. B.

TITLE: The problem of explaining and predicting the most important electronic properties of semiconductors on the basis of data on chemical bonds

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 30, abstract 19B214 (Zh. Vses. khim. o-va im. D. I. Mendeleyeva, v. 5, no. 5, 1960, 493 - 497)

TEXT: The author examined existing methods for estimating the forbidden-band width E and the carrier mobility in composite semiconductors on the basis of chemical data (binding energy, effective atomic charge of the compounds, heat of formation, atomization energy). A new method is proposed for estimating E in compounds with zincblende structure (RZhKhim, no. 14, 1960, 56093). [Abstracter's note: Complete translation.] VB

Card 1/1

PIRSON, U.R. [Pearson, W.B.]

Survey of investigations of the thermoelectric properties of metals
of the first group at low temperatures, conducted in the National
Research Laboratories at Ottawa. Fiz.tver.tela 3 no.5;1411-1424 My
'61. (MIRA 14:6)

1. Otdel chistoy fiziki, Natsional'nyy issledovatel'skiy sovet,
Ottawa, Kanada.
(Metals at low temperatures--Electric properties)

PIRSZEL, W.

POL.

3242

622.378

Krupiński B., Czechowicz M., Mroczek W., Pirszel W. Influence of Gobs
on Overlying Seams.

"Wpływ zrobów na pokłady wyżej leżących". Przegląd Górnictwa, No. 3,
1954, pp. 152-162, 4 figs., 4 tabs.

Coal resources in incompletely worked seams in the Polish coal fields
amount to roughly 23 thousand million tons. The authors review, on the
basis of the Klijazkoff factor (ratio of the thickness of rock between
the coal seams to the thickness of the seam previously worked), a num-
ber of instances of incompletely worked seams. They find that prospects
exist for the further working of such seams; difficulties are likely to
occur, at $K < 0.8$, caused by subsidence and substantial rifts in the roof
(the longwall system of working can be adopted); difficulties in driving
walls still continue at $0.8 < K < 1.5$, but are negligible in the working of
coal at $K > 1.5$. The effect of the previous robbing of the lower seam has
a more marked effect on thin roofs not more than 1.5 metro thick
and on thicker seams. The most conspicuous deformations occur along
the edge of gobs of the lower seam. Violent rock movements are of
relatively short duration, and the long periods of walling until they
endake do not lessen the difficulties of working seams which have been
partly worked at some previous time. Recommendations for the working
of such seams.

PIRSZTEL, Jerzy, inz.

New varnishes for intersheet insulation of transformer cores.
Energetyka Pol 15 no.2:57-59 F '61. (EEAI 10:5)

1. Zaklad Remontowy Energetyki, Gdansk.
(Varnish and varnishing)
(Electric transformers)
(Electric insulators and insulation)

BERLASHVILI, G.A. Minimalli uchastliye. GABIDZASHVILI, V.P., inzh.;
KACHARAYA, G.G., inzh.; KASHAKASHVILI, G.N., inzh.; KHITSKHALAVA,
G.I., inzh.; TZEKALI, A.I., inzh.

Results of experiments in studying the effective use of short
delay blasting. Trudy Inst. ger. dela AN Gruz. SSR 22(15)-17 (1971).

1. Institute of Geology RIAK AN Gruz. SSR for geotechnical
research, Kashakashvili Kirtskhalava, Georgia.
(blastings)

L 37219-66 FWP(j)/EW(m) RM/WW/JW
ACC NR: AP6018139

SOURCE CODE: UR/0251/66/041/001/0075/0062

AUTHOR: Kacheyshvili, G. Ye.; Pirtskhalava, N. I.; Lapatin, E. V.; Dzhioshvili, G. D.

ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universitet)

TITLE: Infrared spectra of certain organoboron compounds

SOURCE: AN GruzSSR. Soobshcheniya, V. 41, no. 1, 1966, 75-82

TOPIC TAGS: organoboron compound, IR spectrum

ABSTRACT: IR spectra for 14 organoboron compounds not previously described in the literature were obtained. Structures of the following compounds were established from spectral and other physical-chemical data: benzyldialkylborons, where the alkyl groups were normal- and iso-propyl, butyl and amyl; alkyl esters of dicyclohexylboric acid; and dibenzyl-n- and -iso-butyliboron. The paper was presented by Academician Tsitsishvili, G. V., April 19, 1965. Orig. art. has: 14 formulas and 4 figures.

SUB CODE: 07/ SUBM DATE: 19Apr65/ ORIG REF: 002/ OTH REF: 001

me
Card 1/1

SHISHNIASHVILI, M.Ye., PIRTSHALAVA, M.V.; ODILAVADZE, L.N.

Complexons from natural compounds. Trudy Inst.khim.^{AN} Gruz.SSR
16:111-116 '62. (MIRA 16:4)
(Complexons)

L 36063-66 EWT(m)/EWP(w)/T/EWP(t)/ETI [JP(c) JD/JG
ACC NR: A 60181.0 SC 1m. 3. DS: 6n/0251/64/0.1, 7.1/0.1, 1120

1. S: Tavani, L. h. (Academy of Sciences); V. V. Malyshvili, V. N.
Malyshvili, L.

: Georgian Institute of Metallurgy, Tbilisi, Soviet Union

2. TITLE: Influence of molybdenum, nickel, and manganese on the structure and properties of nitrogen-containing austenitic-manganese-molybdenum steels

3. SUBJ: Al GruzSSt. Soobshcheniya, 1971, no. 1, p. 107, 1971

4. KEY WORDS: alloy steel, austenite, carbon, nitrogen, manganese, molybdenum

5. ABSTRACT: The influence of molybdenum, nickel, and manganese on the structure and mechanical properties of nitrogen-containing austenitic-manganese-molybdenum steel with 15% Cr and 16% Mn was investigated. For this purpose, the recommendations of D. N. N. (New Alloys for Automobiles), No. 100, 1968, were used. The heat treatment procedure was described earlier (see L. V. Tavani, V. A. Vashadze, and L. I. Mutsisashvili (Vliyanie zolota i nikola na strukturu i svoistva austeniticheskikh khromonikromanganovogo i nikromanganovogo legirovannykh steyek. Soobshcheniya AN GSSR, XXIX: 3, 1971)). The experimental results (presented in graphs and tables) show that the addition of 0.3% Ni and 1.0%-1.5% Mn to the 15% Cr + 16% Mn steel had the greatest strengthening effect. The structure of the

Cord 1/2

L 36083-66
ACC NR: A6016110

is fully austenitic. The strengthening of austenitic reaction is due to its association with the formation of lattice dispersed nitrides.⁷ The hardening effect due to the addition of nitrogen is attributed to a carbon content of 0.40% and a nitrogen content of 0.10%.⁸ Crig. art. contains austenite, 11%,

Sub Code: 11/ Sub. A at 1000 3/ 1000 11: 006/ J.M. 1000 11.

Card 2/2

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Decomposition of the dioxide, insoluble sulfides, and the corresponding minerals. G. L. GRADINOV and D. PAVLOV (Bull. Acad. Sov. Russ. Akad. Nauk, 1966, 37, 120-126) report that reduced to 800°C reduced to Fe and Fe₃O₄, to PbS by heating in NH₃, at 700-800°C Fe₂O₃, Fe₃O₄, and FeO, may be similarly reduced to the corresponding sulphides at >1000°C, the ease of reduction decreasing in the order given.

A. R. P

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C

A new, rapid and precise method for the quantitative separation of copper from bismuth or from bismuth and tin. G. Sparu and Despina Pitica. Univ. Bucarest, Romania. And Ref. Patents, Rumania No. 141118 (1983). French Sum. Ser. Mat. Et. Chim. 2, 611 (1983). Summary.—To the solution Cu and Sn ions add 0.7 g tartaric acid for each 0.1-0.3 g Sn. (10-19.7 g) and add 2-3 ml pyridine and 0.5 g solid NH₄SCN gradually while stirring. A green ppt of CuPydSCN is formed immediately. When the ppt has settled, filter through a filter crucible Al. Wash the ppt with a soln of 0.75 g NH₄SCN + 0.75 g tartaric acid + 2.5 ml pyridine + 2 ml H₂O and then 7-8 times with 2-3 ml of a soln containing 0.1 M NH₄SCN + 2 ml pyridine + 48 ml H₂O in 200 ml 90% EtOH. Finally wash with abt. 30 ml and EtOH containing small amt of pyridine and dry for 20 min in vacuo at room temp. If Bi, Sn, and Sb are present in the Cu alloy or mineral, treat with hot concd HCl, introduce a few ml H₂O dropwise, heat until all metals are dissolved and then excess H₂O removed. Add 0.75 g tartaric acid, dilute to 2 ml, and add 5 ml pyridine and 0.5 g NH₄SCN with stirring. Wash as described above. Gerhard Aufder

